

Application No. 10/780,342
Amendment dated July 12, 2005
Reply to Advisory Action of June 3, 2005

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claim 1 (Currently Amended) A marine propulsion device, comprising:

a metallic gear housing structure;
a polymer layer overmolded on said gear housing structure,
wherein said overmolded polymer layer has an exposed surface of hydrodynamic

5 shape.

Claim 2 (Original) The marine propulsion device of claim 1, wherein:

said metallic gear housing structure is made of aluminum.

Claim 3 (Original) The marine propulsion device of claim 1, wherein:

said polymer layer comprises a fiber filled polymer.

Claim 4 (Original) The marine propulsion device of claim 1, wherein:

said polymer layer comprises a glass filled polymer.

Claim 5 (Original) The marine propulsion device of claim 1, wherein:

said polymer layer comprises a carbon filled polymer.

Claim 6 (Previously Presented) The marine propulsion device of claim 1, wherein:

said polymer layer is overmolded around and surrounding said gear housing structure.

Claim 7 (Original) The marine propulsion device of claim 1, further comprising:

an adhesion promoting substance to facilitate the adhesion of said polymer layer to an outer surface of said gear housing structure.

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Claim 8 (Previously Presented) A marine propulsion device, comprising:

a metallic gear housing structure;

a polymer layer disposed on an outer surface of said gear housing structure;

an adhesion promoting substance to facilitate the adhesion of said polymer layer to

- 5 an outer surface of said gear housing structure, wherein said adhesion promoting substance is disposed within said polymer layer.

Claim 9 (Original) The marine propulsion device of claim 7, wherein:

said adhesion promoting substance is disposed between said metallic gear housing structure and said polymer layer.

Claim 10 (Original) The marine propulsion device of claim 1, wherein:

said polymer layer is injection molded around said metallic gear housing structure.

Claim 11 (Original) The marine propulsion device of claim 1, further comprising:

a drive shaft housing attached to said gear housing structure, said polymer layer being disposed on said drive shaft housing.

Claim 12 (Currently Amended) A marine propulsion device, comprising:

a metallic gear housing structure;

a polymer layer disposed on an outer surface of said gear housing structure;

The marine propulsion device of claim 1

wherein the thermal coefficient of expansion of said metallic gear housing structure is generally similar to the thermal coefficient of expansion of said polymer layer.

Claim 13 (Original) The marine propulsion device of claim 1, wherein:

said polymer layer is held in intimate contact with an outer surface of said gear housing structure with no space therebetween.

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Claim 14 (Original) The marine propulsion device of claim 13, wherein:
said polymer layer is mechanically bonded to said gear housing structure.

Claim 15 (Original) The marine propulsion device of claim 13, wherein:
said polymer layer is chemically bonded to said gear housing structure.

Claims 16-17 (Cancelled).

Claim 18 (Previously Presented) A marine propulsion device, comprising:
an aluminum gear housing structure;
a polymer layer disposed on an outer surface of said gear housing structure, said polymer layer being injection molded around said aluminum gear housing structure;
5 an adhesion promoting substance to facilitate the adhesion of said polymer layer to an outer surface of said gear housing structure, wherein said adhesion promoting substance is disposed within said polymer layer.

Claims 19-22 (Cancelled).

Claim 23 (Previously Presented) A marine propulsion device, comprising:
an aluminum gear housing structure;
a polymer layer disposed on an outer surface of said gear housing structure, said polymer layer being injection molded around said aluminum gear housing structure;
5 wherein said polymer layer is held in intimate contact with an outer surface of said gear housing structure with no space therebetween;
wherein said polymer layer is bonded to said gear housing structure through a plurality of holes formed through said gear housing structure.

Claims 24-33 (Cancelled).

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Claim 34 (New) A marine propulsion device, comprising:

a metallic gear housing structure;

a polymer layer overmolded on said gear housing structure,

wherein said overmolded polymer layer has an exposed surface of a shape selected

5 from the group consisting of a skeg and a bullet-shaped gear housing.